

(26) 34,120
a second housing retention feature mounted to said second connector housing, said second housing retention feature cooperating with said first housing retention feature to secure said first and second connector housings when said housings are fully mated; and

(56,58)
a CPA mounting assembly mounted to said first connector housing, said CPA being slidably mounted to said CPA mounting assembly and movable between first and second positions, said CPA permitting biasing of said retention assembly and engagement and disengagement of said first and second connector housings when in said first position, said retention assembly locking element ^{flexible end of 104} underlying said locking contact surface to prevent said retention assembly from moving to said unlocked position when said CPA is in said second position, whereby said CPA prevents engagement and disengagement of said first and second connector housings when in said second position, said CPA retention element ⁽¹¹⁶⁾ cooperating with said CPA retention feature to maintain said CPA in said second position.

91
concl'd
object
2. (once amended) The electrical connector assembly of claim 1 wherein said retention assembly includes arms and a cross-member joining said arms, said arms including said locking contact surface, and said cross-member including said CPA retention feature. allow.

9. (once amended) An electrical connector assembly comprising:

A2
a connector position assurance device (CPA) including a said CPA includes a retaining CPA beam and at least one locking CPA beam, a latch locking element and a CPA retention element;

a plug housing having a body section with a mating interface on one end thereof;

a header housing having an opening to receive said mating interface;

a latch assembly mounted to said plug housing for maintaining contact between said plug and header housings when mated, said latch assembly including a retention feature, a CPA

retention feature, and a locking contact surface, said latch assembly being movable between latched and unlatched positions;

a latch retention assembly mounted to said header housing and including a latch retention surface, said latch retention surface cooperating with said retention feature to maintain contact between said plug and header housings when said housings are mated; and

A²
(conf'd)
a CPA mounting assembly mounted to said plug housing, said CPA being slidably mounted to said CPA mounting assembly and movable to unmated and mated positions, a portion of said latch assembly exposed through a top surface of said plug housing in each of the mated and unmated positions, said CPA permitting movement of said latch assembly to said unlatched position and thereby permitting engagement and disengagement of said plug and header housings when in said unmated position, said latch locking element cooperating with said locking contact surface to prevent said latch assembly from moving to said unlatched position when said CPA is in said mated position, whereby said CPA prevents engagement and disengagement of said plug and header housings when in said mated position, said CPA retention element cooperating with said CPA retention feature to maintain said CPA in said mated position.

10. (once amended) The electrical connector assembly of claim 9 wherein said latch assembly includes latch arms and a cross-member, said latch arms extending from a latch base and joined by said cross-member proximal to their free ends, said CPA retention element extending from said retaining CPA beam, said latch locking element extending from said at least one locking CPA beam, said latch arms including said locking contact surface, and said cross-member including said CPA retention feature. object

A³
15. (once amended) The electrical connector assembly of claim 9 wherein said CPA includes a CPA finger rest and said latch assembly includes a latch assembly finger rest, said CPA finger rest at least partially surrounding said latch assembly finger rest when said CPA is in said mated position. Fig. 1)

16. (once amended) An electrical connector half assembly comprising:

a connector position assurance device (CPA) including a first CPA beam and a second CPA beam, said first beam including retention assembly locking element and said second beam including a CPA retention element;

a connector housing adapted for mating with a mating connector housing;

A3
cancel
a retention assembly mounted to said connector housing for securing said connector housing to a mating connector housing when fully mated, said retention assembly including a housing retention feature, a CPA retention feature, and a locking contact surface, said retention assembly being movable between locked and unlocked positions; and

a CPA mounting assembly mounted to said connector housing, said CPA being slidably mounted to said CPA mounting assembly and movable between first and second positions wherein a portion of said latch assembly is exposed, said CPA permitting biasing of said retention assembly when in said first position, said retention assembly locking element underlying said locking contact surface to prevent said retention assembly from moving to said unlocked position when said CPA is in said second position, said CPA retention element cooperating with said CPA retention feature to maintain said CPA in said second position.

17. ^{x2} (once amended) The electrical connector half assembly of claim 16 wherein said retention assembly includes arms and a cross-member joining said arms, said arms including said locking contact surface, and said cross-member including said CPA retention feature.
